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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/123.633	07/28/98	MESS	L 11675.168

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MM92/0419

EXAMINER

NGUYEN.V

ART UNIT

PAPER NUMBER

2858

DATE MAILED: 04/19/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

<b>Office Action Summary</b>	Application No. 09/123,633	Applicant(s) MESS, LEONARD E.	
	Examiner VINH P NGUYEN	Art Unit 2858	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

#### Status

- 1) ☒ Responsive to communication(s) filed on 14 February 2000.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) 5 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 and 6-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some \* c) ☐ None of the CERTIFIED copies of the priority documents have been:
1. ☐ received.
2. ☐ received in Application No. (Series Code / Serial Number) \_\_\_\_\_.
3. ☐ received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

#### Attachment(s)

- 14) ☒ Notice of References Cited (PTO-892)
- 15) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 16) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.

- 17) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 18) ☐ Notice of Informal Patent Application (PTO-152)
- 19) ☐ Other: \_\_\_\_\_

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
2. Applicant's election without traverse of species of figure # 8 in Paper No. 4 is acknowledged.
3. Claim 5 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species of figure # 7, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 4.
4. Claims 1-4 and 6-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, it is unclear what "ceramic material" represents. In claim 3, it is unclear what "homogenous material" represents. In claim 10, it is unclear what "inorganic ceramic material" represents. In claims 13 -16, it is unclear what "mixtures and derivatives" represent. The dependent claims not specifically address share the same indefiniteness as they depend from rejected base claims.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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6. Claims 1-4,6,10-16 (insofar as understood) are rejected under 35 U.S.C. 102(b) as being anticipated by Tada et al (Pat # 4,961,052).

As to claims 1-4,6,10-16 Tada et al disclose a probing plate for wafer testing having a plate (10) made of glass, ceramic or alumina, a conductor (11a) with a receiving end for connecting to a semiconductor device (1) and a terminal end for connecting to an electrical apparatus (5,7,6).

7. Claims 1 and 8-9 (insofar as understood) are rejected under 35 U.S.C. 102(b) as being anticipated by Wood et al (Pat # 5,519,332).

As to claim 1, Wood et al disclose an interconnect as shown in figure # 6A having a substrate (84), and an electrical conductor layer (96) with a receiving end for connecting to a semiconductor device (14) and a terminal end for connecting to an electrical apparatus. As to claims 8-9, the interconnect of Wood et al also includes an insulating layer (98) on a portion of the conductor (96).

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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9. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wood et al (Pat # 5,519,332) in view of Huther (Pat # 4,45,314).

Wood et al disclose an interconnect as shown in figure # 6A having a substrate (84), and an electrical conductor layer (96) with a receiving end for connecting to a semiconductor device (14) and a terminal end for connecting to an electrical apparatus. The substrate of Wood et al is not made of Born Nitride. Huther teaches that the insulator made of Boron Nitride is well known in the art. As to claim 7, it would have been well known for one of ordinary skill in the art to make the insulated substrate of Wood et al from Boron Nitride as taught by Huther so that this insulated substrate would have thermally conductive characteristics.

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lockwood et al (Pat # 4,697,143) disclose a wafer prober.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINH P. NGUYEN whose telephone number is (703) 305-4914. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-4900.

  
VINH P. NGUYEN  
PRIMARY EXAMINER  
ART UNIT 2858

04/14/2000